Fabrizio Di Pasquale

List of Publications by Year
in descending order

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76	1,958	236925	243625
papers	citations	25 h-index	44 g-index

76	76	76	1212
all docs	docs citations	times ranked	citing authors

#	Article	IF	Citations
1	Fast FBG Interrogator on Chip Based on Silicon on Insulator Ring Resonator Add/Drop Filters. Journal of Lightwave Technology, 2022, 40, 5328-5336.	4.6	4
2	A Novel Pulse Compression Scheme in Coherent OTDR Using Direct Digital Synthesis and Nonlinear Frequency Modulation. Lecture Notes in Electrical Engineering, 2021, , 173-181.	0.4	1
3	Fiber Bragg Grating Sensors for Dynamic Strain Measurements in Gasoline Direct Injectors. IEEE Transactions on Vehicular Technology, 2021, 70, 5658-5668.	6.3	2
4	Monitoring Large Railways Infrastructures Using Hybrid Optical Fibers Sensor Systems. IEEE Transactions on Intelligent Transportation Systems, 2020, 21, 5177-5188.	8.0	22
5	On the integration of FBG sensing technology into robotic grippers. International Journal of Advanced Manufacturing Technology, 2020, 111, 1173-1185.	3.0	12
6	Fast FBG sensor interrogation method based on silicon microring resonators. , 2020, , .		1
7	High-Speed FBG Interrogation With Electro-Optically Tunable Sagnac Loops. Journal of Lightwave Technology, 2020, 38, 4513-4519.	4.6	12
8	A High-SNR Distributed Acoustic Sensor Based on Ï•-OTDR Using a Scalable Phase Demodulation Scheme Without Phase Unwrapping. Lecture Notes in Electrical Engineering, 2020, , 233-241.	0.4	0
9	Integrated Dynamic Wavelength Division Multiplexed FBG Sensor Interrogator on a Silicon Photonic Chip. Journal of Lightwave Technology, 2019, 37, 4770-4775.	4.6	18
10	Application of Raman and Brillouin Scattering Phenomena in Distributed Optical Fiber Sensing. Frontiers in Physics, 2019, 7, .	2.1	33
11	Dynamic phase extraction in high-SNR DAS based on UWFBGs without phase unwrapping using scalable homodyne demodulation in direct detection. Optics Express, 2019, 27, 10644.	3.4	30
12	Micro-interferometers on chip for sensing applications. , 2019, , .		0
13	Distributed Raman Sensing. , 2019, , 1609-1662.		0
14	Distributed Raman Sensing. , 2018, , 1-55.		4
15	Current Status and Future Trends of Photonic-Integrated FBG Interrogators. Journal of Lightwave Technology, 2018, 36, 946-953.	4.6	36
16	Dynamic phase extraction in a modulated double-pulse Ï•-OTDR sensor using a stable homodyne demodulation in direct detection. Optics Express, 2018, 26, 687.	3.4	75
17	Stable dynamic phase demodulation in a DAS based on double-pulse Ï•-OTDR using homodyne demodulation and direct detection. , 2018, , .		2
18	Integrated, scalable and reconfigurable Silicon Photonics based optical switch for colorless, directionless and contentionless operation. , 2018, , .		1

#	Article	IF	Citations
19	Mach-Zehnder-based 1Ã—16 multiplexer in SOI and analysis of phase noise properties. , 2018, , .		2
20	Integrated FBG Sensors Interrogation Using Active Phase Demodulation on a Silicon Photonic Platform. Journal of Lightwave Technology, 2017, 35, 3374-3379.	4.6	34
21	Distributed Optical Fiber Radiation Sensing in a Mixed-Field Radiation Environment at CERN. Journal of Lightwave Technology, 2017, 35, 3303-3310.	4.6	34
22	Design and Implementation of an Integrated Reconfigurable Silicon Photonics Switch Matrix in IRIS Project. IEEE Journal of Selected Topics in Quantum Electronics, 2016, 22, 155-168.	2.9	44
23	Hybrid distributed acoustic and temperature sensor using a commercial off-the-shelf DFB laser and direct detection. Optics Letters, 2016, 41, 587.	3.3	34
24	Advanced Coding Techniques for Long-Range Raman/BOTDA Distributed Strain and Temperature Measurements. Journal of Lightwave Technology, 2016, 34, 342-350.	4.6	29
25	A Cost-Effective Distributed Acoustic Sensor Using a Commercial Off-the-Shelf DFB Laser and Direct Detection Phase-OTDR. IEEE Photonics Journal, 2016, 8, 1-10.	2.0	71
26	Integrated FBG Sensor Interrogator in SOI Platform using Passive Phase Demodulation. , 2016, , .		2
27	Raman distributed temperature measurement at CERN high energy accelerator mixed field radiation test facility (CHARM). Proceedings of SPIE, 2015, , .	0.8	0
28	Raman Distributed Temperature Sensing at CERN. IEEE Photonics Technology Letters, 2015, 27, 2182-2185.	2.5	32
29	High performance distributed acoustic sensor using cyclic pulse coding in a direct detection coherent-OTDR. , 2015, , .		5
30	High performance fiber optic sensor based on self referenced FBGs and high-speed dual-wavelength pulse coding. Proceedings of SPIE, 2015, , .	0.8	0
31	Ring Versus Bus: A Theoretical and Experimental Comparison of Photonic Integrated NoC. Journal of Lightwave Technology, 2015, 33, 4870-4877.	4.6	17
32	Optimized Hybrid Raman/Fast-BOTDA Sensor for Temperature and Strain Measurements in Large Infrastructures. IEEE Sensors Journal, 2014, 14, 4297-4304.	4.7	14
33	Long-range accelerated BOTDA sensor using adaptive linear prediction and cyclic coding. Optics Letters, 2014, 39, 5411.	3.3	25
34	Cyclic pulse coding for hybrid fast BOTDA/Raman sensor. , 2014, , .		1
35	Raman distributed temperature sensor for oil leakage detection in soil: a field trial and future trends. , 2014, , .		2
36	Fast Brillouin Optical Time Domain Analysis Sensor based on Adaptive Linear Prediction and Cyclic Pulse Coding. , 2014, , .		1

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37	High Performance Time Domain FBG Dynamic Interrogation Scheme Based on Pulse Coding. IEEE Photonics Technology Letters, 2013, 25, 460-463.	2.5	13
38	Analysis and Design of Microring-Based Switching Elements in a Silicon Photonic Integrated Transponder Aggregator. Journal of Lightwave Technology, 2013, 31, 3943-3955.	4.6	20
39	Bidirectional Crosstalk and Back-Reflection Free WDM Active Optical Interconnects. IEEE Photonics Technology Letters, 2013, 25, 1973-1976.	2.5	6
40	Integrated TE and TM optical circulators on ultra-low-loss silicon nitride platform. Optics Express, 2013, 21, 5041.	3.4	60
41	Numerical study of high-index-contrast Er:LiNbO₃ photonic wire lasers optically pumped at 980Ânm. Applied Optics, 2013, 52, 4438.	1.8	3
42	Integrated bidirectional optical amplifier for crosstalk-free WDM communication. , 2013, , .		2
43	Study of Raman amplification in DPP-BOTDA sensing employing Simplex coding for sub-meter scale spatial resolution over long fiber distances. Measurement Science and Technology, 2013, 24, 094018.	2.6	8
44	RAMAN BASED DISTRIBUTED OPTICAL FIBER TEMPERATURE SENSORS: INDUSTRIAL APPLICATIONS AND FUTURE DEVELOPMENTS. , 2013, , 88-113.		0
45	Optimization of a DPP-BOTDA sensor with 25 cm spatial resolution over 60 km standard single-mode fiber using Simplex codes and optical pre-amplification. Optics Express, 2012, 20, 6860.	3.4	61
46	Hybrid Raman/fiber Bragg grating sensor for distributed temperature and discrete dynamic strain measurements. Optics Letters, 2012, 37, 4434.	3.3	18
47	Integrated hybrid Raman/fiber Bragg grating interrogation scheme for distributed temperature and point dynamic strain measurements. Applied Optics, 2012, 51, 7268.	1.8	12
48	Raman-assisted DPP-BOTDA sensor employing Simplex coding with sub-meter scale spatial resolution over 93 km standard SMF. , 2012, , .		1
49	Simplex-Coded BOTDA Sensor Over 120-km SMF With 1-m Spatial Resolution Assisted by Optimized Bidirectional Raman Amplification. IEEE Photonics Technology Letters, 2012, 24, 1823-1826.	2.5	62
50	Hybrid BOTDA/FBG sensor for discrete dynamic and distributed static strain/temperature measurements. , 2012, , .		8
51	Impact of Loss Variations on Double-Ended Distributed Temperature Sensors Based on Raman Anti-Stokes Signal Only. Journal of Lightwave Technology, 2012, 30, 1215-1222.	4.6	45
52	Enhanced-performance BOTDA sensing through optimized pulse coding and low-RIN bidirectional Raman amplification. , 2012, , .		0
53	Long-range BOTDA sensing using optical pulse coding and single source bi-directional distributed Raman amplification. , 2011, , .		3
54	Optimization of long-range BOTDA sensors with high resolution using first-order bi-directional Raman amplification. Optics Express, 2011, 19, 4444.	3.4	95

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55	Long-range simplex-coded BOTDA sensor over 120km distance employing optical preamplification. Optics Letters, 2011, 36, 232.	3.3	107
56	Raman-based distributed temperature sensor with 1â€‰m spatial resolution over 26â€‰km SMF using low-repetition-rate cyclic pulse coding. Optics Letters, 2011, 36, 2557.	3.3	96
57	Design of transverse electric ring isolators for ultra-low-loss Si_3N_4waveguides based on the finite element method. Optics Letters, 2011, 36, 4599.	3.3	19
58	BOTDA sensor with 2-m spatial resolution over 120 km distance using bi-directional distributed Raman amplification. , 2011, , .		3
59	Design of 980 nm-Pumped Waveguide Laser for Continuous Wave Operation in Ion Implanted ${m Er}{:}{m LiNbO}_{3}$. IEEE Journal of Quantum Electronics, 2011, 47, 526-533.	1.9	11
60	Distributed optical fiber temperature sensor using only anti-Stokes Raman scattering light in a loop configuration. , 2011, , .		0
61	Advanced cyclic coding technique for long-range Raman DTS systems with meter-scale spatial resolution over standard SMF. , 2011, , .		11
62	Enhanced distributed hybrid sensor based on Brillouin and Raman scattering combining Fabry-Perot lasers and optical pulse coding. , 2010, , .		2
63	Impact of the pulse modulation format on distributed BOTDA sensors based on Simplex coding. Proceedings of SPIE, 2010, , .	0.8	0
64	Analysis of pulse modulation format in coded BOTDA sensors. Optics Express, 2010, 18, 14878.	3.4	87
65	Simplex-coded BOTDA fiber sensor with 1 m spatial resolution over a 50 km range. Optics Letters, 2010, 35, 259.	3.3	284
66	Long-range Brillouin optical time-domain analysis sensor employing pulse coding techniques. Measurement Science and Technology, 2010, 21, 094024.	2.6	47
67	Simultaneous distributed strain and temperature sensing based on combined Ramanâ€“Brillouin scattering using Fabryâ€“Perot lasers. Measurement Science and Technology, 2010, 21, 094025.	2.6	12
68	Effect of Si-nc to ${hbox {Er}}^{3+}$ Coupling Ratio in EDWAs Longitudinally Pumped by Visible Broad-Area Lasers. Journal of Lightwave Technology, 2009, 27, 3342-3350.	4.6	6
69	Fiber-Optic Distributed Sensor Based on Hybrid Raman and Brillouin Scattering Employing Multiwavelength Fabryâ€“PÃ‰rot Lasers. IEEE Photonics Technology Letters, 2009, 21, 1523-1525.	2.5	27
70	Use of Fabry-PÃƒÂƒÃ‚Â©rot lasers for simultaneous distributed strain and temperature sensing based on hybrid Raman and Brillouin scattering. Proceedings of SPIE, 2009, , .	0.8	0
71	Performance improvement in Brillouin-based simultaneous strain and temperature sensors employing pulse coding in coherent detection schemes. , 2009, , .		0
72	Evanescent Multimode Longitudinal Pumping Scheme for Si-Nanocluster Sensitized Er^{3+}-Doped Waveguide Amplifiers. Journal of Lightwave Technology, 2008, 26, 3584-3591.	4.6	10

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73	Analysis of optical pulse coding in spontaneous Brillouin-based distributed temperature sensors. Optics Express, 2008, 16, 19097.	3.4	65
74	Brillouin-Based Distributed Temperature Sensor Employing Pulse Coding. IEEE Sensors Journal, 2008, 8, 225-226.	4.7	50
75	Analysis of distributed temperature sensing based on Raman scattering using OTDR coding and discrete Raman amplification. Measurement Science and Technology, 2007, 18, 3211-3218.	2.6	97
76	Unrepeated WDM Transmission Systems Based on Advanced First-Order and Higher Order Raman-Copumping Technologies. Journal of Lightwave Technology, 2007, 25, 3519-3527.	4.6	7